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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/051,415 01/18/2002 Santosh C. Lolayekar MARA-01001USO SBS 7003

48789 7590 06/01/2007
LAW OFFICES OF BARRY N. YOUNG
260 SHERIDAN AVENUE
SUITE 410
PALO ALTO, CA 94306-2047

EXAMINER

WALSH, JOHN B

ART UNIT	PAPER NUMBER
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2151

MAIL DATE	DELIVERY MODE
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06/01/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/051,415	Applicant(s) LOLAYEKAR ET AL.	
	Examiner John B. Walsh	Art Unit 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on amdt of 2/5/07.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-10,12-36 and 49 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 1,2,4-10,20-33 and 49 is/are allowed.
- 6) Claim(s) 12-19 and 34 is/are rejected.
- 7) Claim(s) 35 and 36 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 34 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,331,631 to Teraslinna.

As concerns claim 34, receiving at an ingress linecard (figure 4) a packet formatted in accordance with a first protocol, the packet destined from a virtual target with a virtual target address (column 8, lines 23-35); the ingress linecard retrieving information about the virtual target from a virtual target descriptor, the information including a flowID and placing a virtual target descriptor identifier (VCI) and the flowID (virtual path identifier) in a local header of the packet (column 8, line 31); the ingress linecard forwarding the packet to a fabric, which forwards the packet to an egress linecard in accordance with the flowID; the egress linecard using the virtual target descriptor identifier to identify information about a physical target associated with the virtual target, including whether the physical target requires a packet formatted in accordance with a second protocol, and using the information about the physical target to convert a virtual target block address to a physical target block address (column 8, lines 29-30) and to translate, if necessary, the format of the packet from the first protocol to the second protocol (if is a conditional statement and the condition has been interpreted as not satisfied); and the egress

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linecard sending the packet to the physical target using the physical target block address (figure 2).

3. Claims 12-19 rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 7,200,144 to Terrell et al.

As concerns claim 12, receiving a packet (column 9, line 24; frames) formatted in accordance with a first recognized protocol (inherent for a packet to have a protocol; column 9, lines 24-25); mapping the fields of the packet (column 10, line 47) to a new packet formatted in accordance with a second protocol (column 9, lines 24-34) without buffering the packet (column 4, line 34).

As concerns claim 13, the steps of receiving and mapping are performed at wire speed (column 4, line 34).

As concerns claim 14, wherein mapping includes mapping by a processor the fields of the packet to a new packet formatted in accordance with a second protocol (column 9, lines 24-34) without buffering (column 4, line 34).

As concerns claim 15, wherein the first protocol is iSCSI (column 12, line 4; column 12, lines 61-62) and the second protocol is Fibre Channel (column 9, line 28).

As concerns claim 16, the first protocol is iSCSI (column 12, line 4; column 12, lines 61-62) embedded in TCP (column 9, lines 28-31).

As concerns claim 17, wherein the first protocol is Fibre Channel (column 9, line 28) and the second protocol is iSCSI (column 12, line 4; column 12, lines 61-62).

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As concerns claim 18, the second protocol is iSCSI (column 12, line 4; column 12, lines 61-62; any protocol) embedded in TCP (column 9, lines 28-31; combinations SCSI and IP).

As concerns claim 19, a SCSI command descriptor block (table 6).

Allowable Subject Matter

4. Claims 1, 2, 4-10, 20-33 and 49 are allowed.
5. Claims 35 and 36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

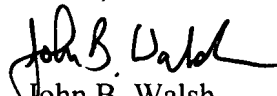
Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Thursday from 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


John B. Walsh
Primary Examiner
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